

METHOD FOR BACK-WASHING MEMBRANE SEPARATION APPARATUS

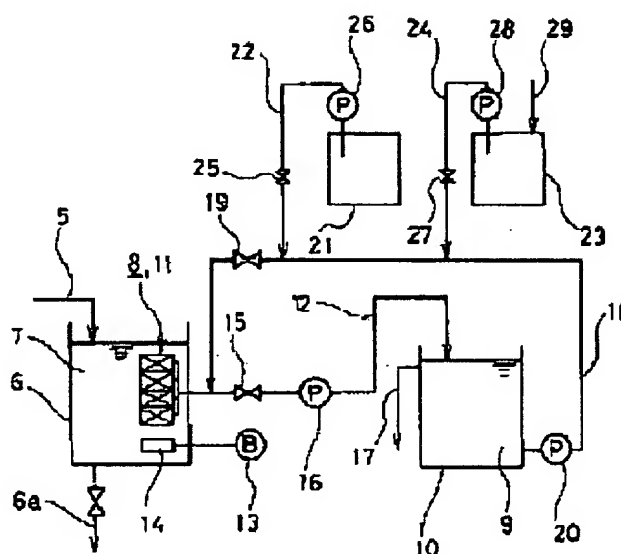
Patent number: JP9290141
Publication date: 1997-11-11
Inventor: YOSHIZAKI TAKESHI; ISHIHARA KATSURO;
 NARUKAMI YOSHIHISA; OZAKI TOSHIYA; IHARA
 HIROSHI
Applicant: KUBOTA CORP
Classification:
 - international: B01D65/06; B01D65/02
 - european:
Application number: JP19960103016 19960425
Priority number(s):

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Abstract of JP9290141

PROBLEM TO BE SOLVED: To prevent the property deterioration of a separation membrane due to back-washing with the use of an oxidizing agent by a method in which adherend on the membrane is oxidation-decomposed by sending an oxidizing agent solution to the filtrate channel of the membrane as opposed to a filtration process, and then a reducing agent solution is sent similarly to reduce and dissolve adherent oxide.

SOLUTION: Chemical washing is done at appropriate washing intervals while back-washing by filtrate being done appropriately during filtration operation. In this process, a chemical injection pump is driven with a back-washing pump 20 stopped, and the oxidizing agent solution of a chemical tank 21 is injected into a back-washing water supply pipe 18 so that organic substances etc., adherent to a separation membrane are oxidation-decomposed by an oxidizing agent. In back-washing, oxide produced by the oxidizing agent such as manganese dioxide from manganese ion in raw water 7 is deposited, and the deposit is sent with the oxidizing agent solution and the filtrate to adhere to the surface of the membrane. A chemical injection pump 28 is driven appropriately to back-wash a chemical tank 23 with a reducing agent solution to reduce and dissolve the oxide.



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